

Behavioral Health Troffers: VL-RZCD-LED

Anti-Ligature 1x4, 2x2 and 2x4 Recessed LED Luminaires for Behavioral Health Facilities.

- **IP65 Rated**
- **Anti-Ligature Zero Clearance Door Frame Design**
- **Polycarbonate Lensing & Tamper-Resistant Fasteners Standard**
- **0-10V Dimming Down to 1% Standard**
- **Recessed Housing Suitable for Grid or Flange Installation**
- **B.A.A. Compliant & Made in the USA by a Family Owned US Corporation**



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ORDERING GUIDE

Series	Material	Size	Row Qty.	LED Type	CCT/CRI	Voltage	Outer Lens/Inner Lens	Options				
VL-RZCD												
Series	Material	Size	Row Qty.	Light Source		Voltage	Optics LED Side / Room Side	Options				
VL-RZCD	White 430 SS Hsg. & Polished 304 SS Door	1x4 1x4 Housing	1	LEDR	83 CRI:	120V	Prismatic	SW	Wet Location Hub Supplied (not installed)			
			2	LEDH	830 3000K	277V		1	.125" P12 Polycarbonate	PxL*	Programmed to User Specified Lumen Value.	
	White AL Hsg. & Polished 304 SS Door	2x2 2x2 Housing	2		LEDHF	835 3500K	UNV	2	.140" P12 High Impact Acrylic	PxW*	Programmed to User Specified Wattage Value.	
						840 4000K	347V*	3	.156" P12 Polycarbonate	10KV	10KV Parallel Surge Protection (One Supplied Per Circuit)	
	White AL Hsg. & White CRS Door	2x4 2x4 Housing	3			850 5000K		4	.156" P73 Tempered Glass	GTD	Generator Transfer Device	
										WHIP	Must Specify Length and Wire Qty	
	White 430 SS Hsg. & White CRS Door			4		90+ CRI:			OCCMW	Internal microwave OCC Sensor		
						935 3500K			5	.125" Clear Flat Polycarbonate	FC	Fuse & Holder (One Supplied Per Circuit)
						940 4000K			6	.187" Clear Flat Polycarbonate	EM10**	10W Integral LED EM (Specify Input Voltage)
						950 5000K			7	.250" Clear Flat Polycarbonate	EM20	20W Remote LED EM (Specify Input Voltage)
										GG	1/8" Thick Grid Gasket (Provided Loose)	
										WHT	White Finished Door & HSG	
									AMW	Anti-Microbial White Powdercoat		
									AH	Allen Head SS Tamperproof Fasteners		
									TPWHT	Tamper Resistant Torx Fasteners Painted White		

Note: Additionally available in 95+ CRI with Seoul Sun-Like LEDs. Consult factory for more information.

*Select up to 1 layer of prismatic lensing

**Note: EM10 remote mount for 2x2 4/LEDH & 4/LEDHF selections
 **Note: EM10 remote mount for 2x4 4/LEDHF selections

Ordering Notes, If Applicable

Behavioral Health Troffers: VL-RZCD-LED

Anti-Ligature 1x4, 2x2 and 2x4 Recessed and Surface Mounted LED Luminaires for Behavioral Health Facilities.

SPECIFICATIONS

HOUSING: One piece, hole free, robotically seam welded housing has flattened knockouts for a superior seal. Housings are available in .040" 3003 Aluminum or 20Ga 430 Stainless Steel.

DOOR FRAME: One piece zero clearance interference fit doorframe regressed into housing and designed to prevent ligature. Secured by captive Torx tamperproof fasteners and hinged to housing with aircraft cables. Available in .040" 3003 Powder coated Alum. , 20Ga 304 Polished SS, or 18Ga 1008 Powder coated CRS.

GASKETS: Closed cell microcellular extruded gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system. GG option provides a loose 1/8" thick adhesive backed gasket intended to adhere to the top face of a suspended grid ceiling for grid profiles that do not already have gasket on them.

OPTICS: Select up to 2 layers of lensing up to a combined thickness of .375". Available in flat or prismatic polycarbonate, tempered glass, or high impact acrylic.

LEDS: Commercially available in a wide variety of Color Temperature (CCT), FLUX, and CRI. Highly efficient and consistent color maintained to 3 SDMC for color critical applications. B50/L70 and compliant with Zhaga recognized hole patterns. Consult factory for LED options or configurations not listed below.

DRIVERS: Standard Universal Voltage Class 2 drivers are 0-10v Dimmable to 1% and rated -20C (-4F) They come with at least 2.5Kv surge protection, have less than 10% THD at max load, Ballast Factor Greater than .95 and are programmable to match specific lumen or wattage requirements. Drivers with higher input voltage ratings are available, consult factory for driver specifications.

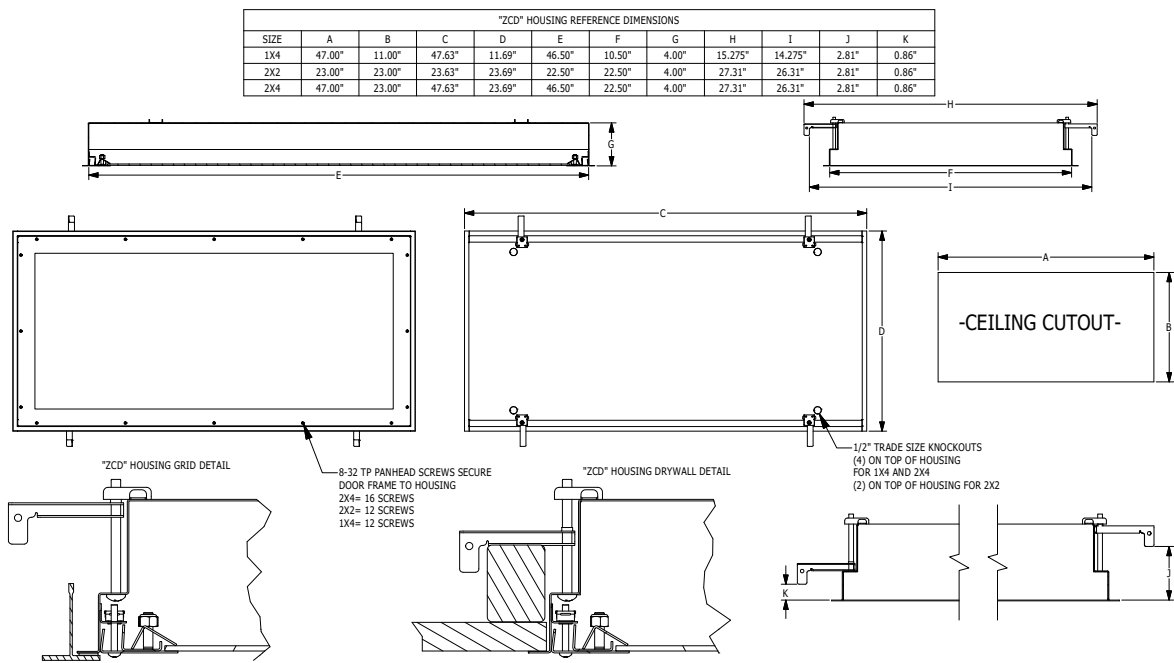
REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

INSTALLATION: Suitable for recessed Non-IC installation into covered ceilings. Fixtures are supplied with .875" flattened knockouts for supply entry. Recessed housings have (4) swing out toggle arms that are used to draw the fixture in to the ceiling for hard lid installation without the need for a yoke hanger. The toggle arm adjuster bolts are accessible from the room side of the luminaire and the actual toggles can be used as means of establishing a seismic support for lay in ceiling installations. Confirm ceiling compatibility with dimension drawings below.

FINISH: Stainless steel door frames are satin polished unless WHT or AMW options are selected. All other materials are provided with gloss high reflectance white polyester powdercoat with 1000hr salt spray test per ASTM B117. AMW option provides a white anti-microbial polyester powder coat to all exposed surfaces.

LISTINGS: IP65 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosesdowns. ETL listed per UL_1598 for wet locations. Chicago Plenum Rated. NSF2 Listed for Non-Food & Splash Zones. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty. This product is Buy American Act (B.A.A.) compliant.

PRODUCT DRAWINGS



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ENERGY DATA

POLY INSET-FGRS-LED TROFFER (APPROX ¹ LUMENS DELIVERED)										
ENCLOSURE SIZE	LIGHT PACKAGE	80 CRI (3000K - 5000K)				90 CRI (3500K, 4000K)				STANDARD DIMMING
		LUMENS	WATTS ²	EFFICACY ³	MAX AMB TEMP	LUMENS	WATTS ²	EFFICACY ³	MAX AMB TEMP ⁴	
1X4	1LEDR	2,731	29	94	45°C (113°F)	2,632	29	91	45°C (113°F)	0-10V 1%
1X4	2LEDR	5,460	55	99	45°C (113°F)	5,263	56	94	45°C (113°F)	0-10V 1%
1X4	2LEDH	10,579	109	97	35°C (95°F)	10,103	109	93	35°C (95°F)	0-10V 1%
1X4	2LEDHF	15,611	153	102	35°C (95°F)	13,009	183	71	35°C (95°F)	0-10V 1%
1X4	EM10	940-1020	4	NA	40°C (104°F)	710-940	4	NA	40°C (104°F)	NA
2X2	2LEDR	2,717	29	94	45°C (113°F)	2,622	29	90	45°C (113°F)	0-10V 1%
2X2	3LEDR	4,076	42	97	45°C (113°F)	3,932	42	94	45°C (113°F)	0-10V 1%
2X2	2LEDH	5,346	55	97	40°C (104°F)	5,097	55	93	40°C (104°F)	0-10V 1%
2X2	4LEDR	5,435	55	99	45°C (113°F)	5,243	56	94	45°C (113°F)	0-10V 1%
2X2	3LEDH	8,020	80	100	40°C (104°F)	7,648	81	95	35°C (95°F)	0-10V 1%
2X2	4LEDH	10,693	109	98	40°C (104°F)	10,194	109	94	35°C (95°F)	0-10V 1%
2X2	4LEDHF	16,244	153	106	35°C (95°F)	13,437	184	73	35°C (95°F)	0-10V 1%
2X2	EM10	940-1060	4	NA	40°C (104°F)	730-950	4	NA	40°C (104°F)	NA
2X4	2LEDR	5,912	55	107	45°C (113°F)	5,657	56	101	45°C (113°F)	0-10V 1%
2X4	3LEDR	8,868	83	107	45°C (113°F)	8,485	83	102	45°C (113°F)	0-10V 1%
2X4	2LEDH	11,670	109	107	40°C (104°F)	11,089	109	102	40°C (104°F)	0-10V 1%
2X4	4LEDR	11,824	111	107	45°C (113°F)	11,313	113	100	45°C (113°F)	0-10V 1%
2X4	3LEDH	17,505	164	107	40°C (104°F)	16,634	164	101	40°C (104°F)	0-10V 1%
2X4	4LEDH	23,339	220	106	40°C (104°F)	22,178	220	101	40°C (104°F)	0-10V 1%
2X4	4LEDHF	35,851	305	118	35°C (95°F)	31,103	373	83	35°C (95°F)	0-10V 1%
2X4	EM10	1060-1180	4	NA	40°C (104°F)	830-1020	4	NA	40°C (104°F)	NA

¹ DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @ 25C WITH NO EXTRA OPTIONS. VARIANCES WILL OCCUR WHEN OPTIONS ARE CHOSEN

² WATTAGE IS MEASURED WITH 4000K SELECTION @ 120vAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS

³ EFFICACY CALCULATED USING 4000K CCT DATA.

⁴ MAX AMBIENT TEMP RATING, NON-IC INSTALLATION. TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON STANDARD SELECTION

⁵ 90 MINUTE 10W EMERGENCY DRIVER; LUMENS CALCULATED BASED ON FIXTURE EFFICACY.